



(REFERENCE COPY - Not for submission)

DTV Engineering STA Application

File Number: 0000085662 | Submit Date: 10/10/2019 | Call Sign: WHDH | Facility ID: 72145 | FRN: 0003613825 | State: Massachusetts | City: BOSTON

Service: DTV | Purpose: Engineering STA | Status: Granted | Status Date: 10/15/2019 | Expiration Date: 04/15/2020 |

Filing Status: InActive

General Information

Section	Question	Response
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Fees, Waivers, and Exemptions

Section	Question	Response
Fees	Is the applicant exempt from FCC application Fees?	No
	Indicate reason for fee exemption:	
Waivers	Does this filing request a waiver of the Commission's rule(s)?	No
	Total number of rule sections involved in this waiver request:	

Application Type	Fee Code	Fee Amount
Engineering STA	MGT	\$200.00
Total		\$200.00

Applicant
Information

Applicant Name, Type, and Contact Information

Applicant	Address	Phone	Email	Applicant Type
WHDH-TV Doing Business As: WHDH-TV	PAUL MAGNES GOVERNMENT CENTER 7 BULFINCH PLACE BOSTON, MA 02114 United States	+1 (617) 725- 0777	PMAGNES@WHDH. COM	Trust

Authorization Holder Name

Check box if the Authorization Holder name is being updated because of the sale (or transfer of control) of the Authorization(s) to another party and for which proper Commission approval has not been received or proper notification provided.

Contact
Representatives
(2)

Contact Name	Address	Phone	Email	Contact Type
John E. Hidle , PE . <i>Consulting Engineer</i> Carl T. Jones Corporation	John E. Hidle, PE 7901 Yarnwood Court Springfield, VA 22153-2827 United States	+1 (703) 569-7704	jhidle@ctjc.com	Technical Representative
CHARLES R. NAFTALIN , ESQ . HOLLAND & KNIGHT LLP	CHARLES R. NAFTALIN HOLLAND & KNIGHT LLP 800 17TH STREET, N.W., SUITE #1100 WASHINGTON, DC 20006 United States	+1 (202) 457-7040	CHARLES. NAFTALIN@HKLAW.COM	Legal Representative

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	72145
	State	Massachusetts
	City	BOSTON
	DTV Channel	35
	Designated Market Area	Boston (Manchester)
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	1

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1005862
Coordinates (NAD83)	Latitude	42° 18' 41.0" N+
	Longitude	071° 12' 58.0" W-
	Structure Type	TOWER-A free standing or guyed struct
	Overall Structure Height	323.8 meters
	Support Structure Height	304.8 meters
	Ground Elevation (AMSL)	33.1 meters
Antenna Data	Height of Radiation Center Above Ground Level	245 meters
	Height of Radiation Center Above Average Terrain	233.7 meters
	Height of Radiation Center Above Mean Sea Level	278.1 meters
	Effective Radiated Power	900 kW

Antenna
Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Directional Custom
	Do you have an Antenna ID?	No
	Antenna ID	1005696
Antenna Manufacturer and Model	Manufacturer:	Dielectric
	Model	TFU-16WB C160
	Rotation	0 degrees
	Electrical Beam Tilt	.55
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

Directional Antenna Relative Field Values (Pre-rotated Pattern)

Degree	Value	Degree	Value	Degree	Value	Degree	Value
0	.869	90	.787	180	.873	270	.599
10	.918	100	.798	190	.823	280	.550
20	.964	110	.832	200	.759	290	.425
30	.992	120	.888	210	.660	300	.316
40	.986	130	.949	220	.517	310	.364
50	.945	140	.991	230	.364	320	.517
60	.885	150	.998	240	.316	330	.659
70	.831	160	.971	250	.425	340	.758
80	.797	170	.923	260	.549	350	.820

Additional Azimuths

Degree	V _A
33	.994
302	.310
238	.310
147	1.0

Certification

Section	Question	Response
General Certification Statements	The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by authorization or otherwise, and requests an Authorization in accordance with this application (See Section 304 of the Communications Act of 1934, as amended.).	
	The Applicant certifies that neither the Applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to §5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. §862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under §1.2002(c) of the rules, 47 CFR . See §1.2002(b) of the rules, 47 CFR §1.2002(b), for the definition of "party to the application" as used in this certification §1.2002 (c). The Applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.	
Authorized Party to Sign	FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID Upon grant of this application, the Authorization Holder may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in automatic cancellation of the Authorization. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of Authorization requested in this application. WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND /OR IMPRISONMENT (U.S. Code, Title 18, §1001) AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, §312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, §503).	
	I certify that this application includes all required and relevant attachments.	Yes
	I declare, under penalty of perjury, that I am an authorized representative of the above-named applicant for the Authorization(s) specified above.	Paul Magnes <i>Executive Vice President</i> 10/10/2019

Attachments

File Name	Uploaded By	Attachment Type	Description
<u>STA Exhibit - October 2019.pdf</u>	Applicant	General Information	STA Exhibit - October 2019
<u>WHDH AUX antenna exhibits for ch 35.pdf</u>	Applicant	General Information	WHDH - Auxiliary antenna exhibits - Technical data for Dielectric model TFU-16WB C160